

## CLAIMS:

What I claim as my invention is:

1. An improved low cost and more efficient process for producing steam with zero atmospheric emissions comprising:
  - a substantially rigid, hollow housing, closed on the top and bottom, so as to form a closed chamber therein with structural base, capable of maintaining a high pressure;  
seal means, attached to the top of the said housing forming flame chamber in said housing for defining substantially a space to contain Oxyhydrogen flame in a space surrounded by membrane,
  - a device to mitigate deposition mineral salts on membrane and additional devices to automatically maintain membrane for optimum heat transfer
  - a plurality of steam supply nozzles in said housing
  - a plurality of steam discharge nozzles in said housing
  - a plurality of water supply nozzles in said housing
  - an Oxygen and Hydrogen torch in said housing
  - a thermal insulation system on exterior of said housing
  - a plurality of steam over pressure protection devices in said housing.

2. The device of claim 1 further comprising a steam reservoir in fluid communication with said housing supplying steam and water into annular space of interior wall of said housing and said membrane.
3. Temperature sensing means of said membrane and additional means to automatically protect said membrane over temperature.
4. A pump with fluid communication from said housing for water to condensate reservoir.
5. The device of claim 1 further comprising automatic Oxygen and Hydrogen burned in stokiometric proportions for optimum combustion.
6. The device of claim 1 further comprising automatic Oxyhydrogen flame and steam interface by regulation said housing pressure, Oxygen and Hydrogen pressures, steam pressures.
7. The device of claim 1 further comprising combustion of Hydrogen with
  - a pressurized air supply,
  - a gas removal system,
  - a fluid treatment by chemicals.

8. The device of claim 1 further comprising combustion of Hydrogen with
- a Oxygen enriched pressurized air supply,
  - a gas removal system,
  - a fluid treatment by chemicals.
9. The device of claim 1 further comprising combustion of Hydrogen with
- a Hydrogen Peroxide,
  - a gas removal system,
  - a fluid treatment by chemicals.

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